

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV 0

REF TCCA STC: SH02-33

REF FAA STC: SR01620NY

REF EASA STC: EASA.IM.R.S.01453

REF BRAZILIAN STC: 2005S03-09

## PURPOSE:

TO PROVIDE AN OPTIONAL SHOULDER HARNESS KIT TO BE INSTALLED ON THE D350-689-011/-021 DUAL HIGH BACK SEAT INSTALLATIONS.

## CHANGE:

ADD OPTIONAL D350-689-017 SHOULDER HARNESS KIT (4 POINT INERTIA REEL) TO PARTS LIST OF IIN-D350-689 REV A AND ICA-D350-689 REV 0 AS DETAILED BELOW.

## PARTS LIST:

Qty -017	Part Number	Description
X	D350-689-017	SHOULDER HARNESS KIT (4 POINT INERTIA REEL)
2	D4071-041	SHOULDER HARNESS ASSY
2	AN5-4A	BOLT
4	NAS1149D0516J	WASHER
2	MS21042L5	NUT (OR MS21042-5)

## INSTRUCTIONS:

TO INSTALL D350-689-017 SHOULDER HARNESS KIT:

1. DRILL Ø0.323 HOLES AS INDICATED ON SHEET 2, DETAIL "A" OF THIS SERVICE INSTRUCTION FOR THE INERTIA REEL.
2. DEBURR AND TOUCH UP DRILLED HOLES AS INDICATED ON IIN-D350-689 SECTION 3.1 ITEM 5 (PG 4).
3. GUIDE SHOULDER HARNESS WEBBING THRU D3031-1 LOOP BY REMOVING LOOP FIRST, POSITIONING WEBBING AND FINALLY REPLACING D3031-1 LOOP. TORQUE FASTENERS TO 15-25 in-lbs.
4. INSTALL INERTIA REEL OF D4071-041 HARNESS ASSY USING THE HARDWARE PROVIDED AS PER FIGURE 1 (SHEET 2). ALIGN INERTIA REEL TO ENSURE WEBBING IS STRAIGHT. TORQUE FASTENERS TO 100-140 in-lbs.
5. REPEAT STEPS 3 & 4 FOR THE SECOND SHOULDER HARNESS.
6. INSTALL D4071-041 LAP BELT ASSY (QTY 2) USING EXISTING HARDWARE PROVIDED WITH D350-689-041/-043 DUAL HIGH BACK SEAT ASSEMBLY. SEE FIGURE 2 (SHEET 2) FOR REFERENCE.






## WEIGHT AND BALANCE:

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-689-017 SHOULDER HARNESS KIT (Seat's Fwd position)	4.4 lb 2.00 kg	-18.2 in -0.46 m	- 80.1 in-lb -0.92 m-kG	60.7 in 1.54 m	267 in-lb 3.08 m-kG
D350-689-017 SHOULDER HARNESS KIT (Seat's Aft position)	4.4 lb 2.00 kg	-18.2 in -0.46 m	- 80.1 in-lb -0.92 m-kG	64.7 in 1.64 m	285 in-lb 3.28 m-kG

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY:   
D. SHEPHERD (DE # 02)

DATE: 10.04.13  
CERT. NO.: SH02-33  
ISSUE NO.: 1

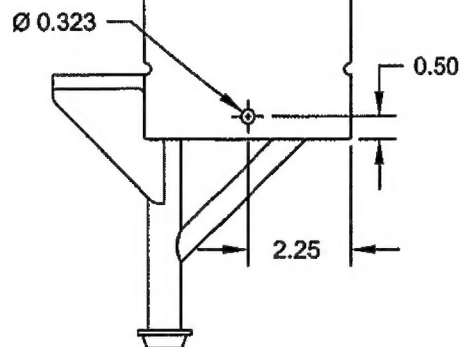
A	NEW ISSUE.	JPH	10.04.13
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DESIGN		<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9499	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		SHOULDER HARNESS KIT	NTS
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D350-689-041/-043  
DUAL HIGH BACK  
SEAT ASSEMBLY

D3031-1  
LOOP

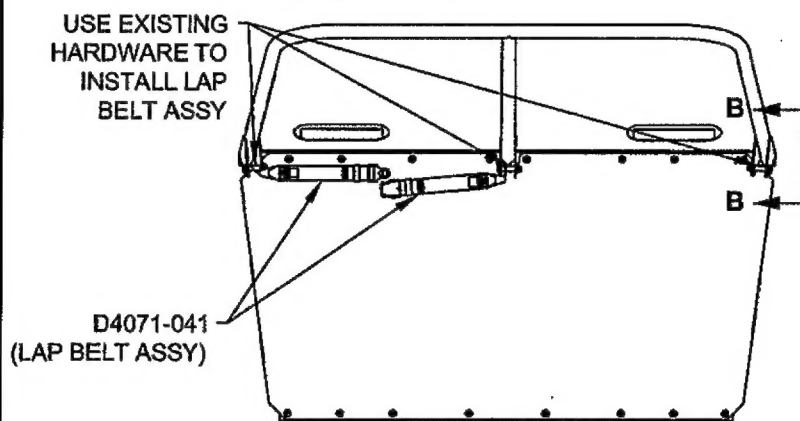
D4071-041  
(SHOULDER HARNESS)

AN5-4A BOLT  
NAS1149D0516J WASHER, 2X  
MS21042L5 NUT

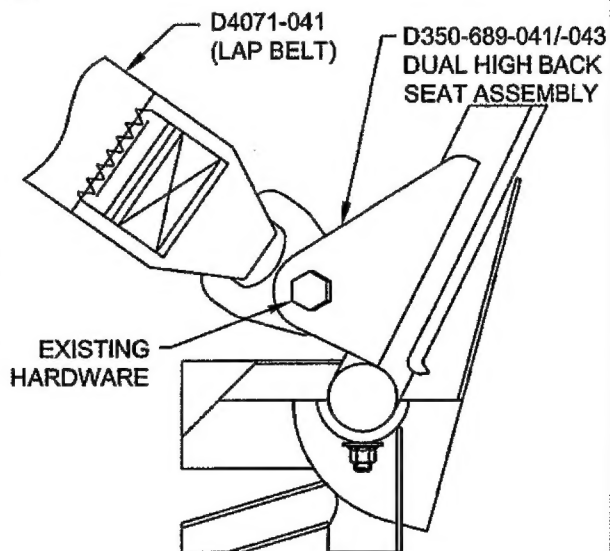


**DETAIL A**  
**PLATE REWORK**  
**PARTS REMOVED FOR CLARITY**

**FIGURE 1**  
**DUAL HIGH BACK SEAT ASSEMBLY**  
**WITH D350-689-017**  
**ONE HARNESS ASSY SHOWN**



**FIGURE 2**  
**DUAL HIGH BACK SEAT ASSEMBLY**  
**WITH D350-689-017**  
**ONE LAP BELT ASSY SHOWN FOR CLARITY**








**SECTION VIEW B-B**  
**LAP BELT ASSY INTL**  
**(ROTATED VIEW)**

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AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-Q-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

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MFG. APPR.	N/A	DSI 9499	SHEET 2 OF 2
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